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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,312	09/30/2003	Hao Pan	SLA1347 (7146.0167)	8186
55648	7590	01/13/2011		
KEVIN L. RUSSELL CHERNOFF, VILHAUER, MCCLUNG & STENZEL LLP 1600 ODS TOWER 601 SW SECOND AVENUE PORTLAND, OR 97204			EXAMINER DHARIA, PRABODH M	
			ART UNIT 2629	PAPER NUMBER
			MAIL DATE 01/13/2011	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/676,312	Applicant(s) PAN ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4 is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☒ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2629

1. **Status:** Please all the replies and correspondence should be addressed to examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 12-08-2010 under Pre-Appeal Conference request, which have been placed of record in the file. Claims 1-4 are pending in this action.

2. Applicant Pre-Appeal Conference request of 12-08-2010 has been held; Conference has decided to withdraw the Final Rejection mailed on 09-21-2010 is withdrawn and prosecution is re-opened.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Liaw, Ming-Jiun (US 20040140985 A1).

5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmermann et al. (USP 7,312,820) in view of Wood (USP 6,288,695) and Matsushima (USP 5,976,086).

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Regarding claim 1, Liaw, Ming-Jiun (US 20040140985 A1) discloses a method of modifying a video image (page 2, paragraphs 23-27) comprising a plurality of sequential frames to be displayed on a display (figures 5-7 suggests receiving plurality of frames of image data and displaying on LCD display, page 2, paragraphs 26,27); (a) receiving at least a portion of a current frame of said video image (figures 5-7 suggests receiving plurality of frames of image data and displaying on LCD display, page 2, paragraphs 26,27); and (b) modifying said current frame to alternatively increase or decrease the luminance output of a portion of said display corresponding to a pixel of said current frame, by overdriving a voltage to said portion to a current value automatically selected (pages 1- 3, paragraphs 9-11, 22-38, please see paragraphs 30-33 does suggests automatically selecting predicted display luminance values from LUT)) based upon: (i) at least one predicted displayed luminance value of said pixel in respective ones of at least one subsequent frame of said video image(pages 1- 3, paragraphs 9-11, 22-38, please see paragraphs 30-33 does suggests automatically selecting predicted display luminance values from LUT); and (ii) at least one previously displayed luminance value of said pixel in respective ones of at least one previous frame of said video image (pages 1- 3, paragraphs 9-11, 22-38).

Relative to claim 2, Liaw, Ming-Jiun (US 20040140985 A1) discloses at least one previously displayed luminance value of said pixel is stored in a respective frame buffer (page 2, paragraph 27).

Allowable Subject Matter

6. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Claim 4 is allowed.

8. The following is an examiner's statement of reasons for allowance:

Relative to claim 4, the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art does not teach a method of modifying an image to be displayed on a display; (a) receiving at least a portion of said image; and (b) modifying said image to alternatively increase or decrease the luminance output of a pixel of said image by overdriving said pixel to a current value that is elected based upon: (i) at least one predicted displayed luminance value of said pixel in respective ones of at least one subsequent frame of said image; and (ii) at least one previously displayed luminance value of said pixel in respective ones of at least one previous frame of said image, wherein said at least one previously displayed luminance value of said pixel is stored in a respective frame buffers; where (c) a first said previously displayed luminance value is at a state where liquid crystal material associated with said pixel of said display is not at an equilibrium state, and where a second said previously displayed luminance value is at a state where said liquid crystal material associated with said pixel is at an equilibrium state, and where said second said previously displayed luminance value is from the earliest said at least one frame, upon which selection of said current value is based.

Response to Arguments

9. Applicant's arguments, see remark, filed 12-08-2010, with respect to the rejection(s) of claim(s) 1 and 2 under 35 U.S.C. 103(a) as being unpatentable over Zimmermann et al. (USP 7,312,820) in view of Wood (USP 6,288,695) and Matsushima (USP 5,976,086) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Liaw, Ming-Jiun (US 20040140985 A1).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRABODH M. DHARIA whose telephone number is (571)272-7668. The examiner can normally be reached on M-F 8-30AM to 5PM.

11. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

/Prabodh M Dharia/

Primary Examiner,

Art Unit 2629

January 10, 2011